

Raw Sequence Listing Error Summary

ERROR DETECTED SUGGESTED CORRECTION

SERIAL NUMBER: 09/721,414

ATTN: NEW RULES CASES: PLEASE DISREGARD ENGLISH "ALPHA" HEADERS, WHICH WERE INSERTED BY PTO SOFTWARE

- 1 Wrapped Nucleics The number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 2 Wrapped Aminos The amino acid-number/text at the end of each line "wrapped" down to the next line.
This may occur if your file was retrieved in a word processor after creating it.
Please adjust your right margin to .3, as this will prevent "wrapping".
- 3 Incorrect Line Length The rules require that a line not exceed 72 characters in length. This includes spaces.
- 4 Misaligned Amino Acid The numbering under each 5th amino acid is misaligned. This may be caused by the use of tabs
Numbering between the numbering. It is recommended to delete any tabs and use spacing between the numbers.
- 5 Non-ASCII This file was not saved in ASCII (DOS) text, as required by the Sequence Rules.
Please ensure your subsequent submission is saved in ASCII text so that it can be processed.
- 6 Variable Length Sequence(s) contain n's or Xaa's which represented more than one residue.
As per the rules, each n or Xaa can only represent a single residue.
Please present the maximum number of each residue having variable length and
indicate in the (ix) feature section that some may be missing.
- 7 PatentIn ver. 2.0 "bug" A "bug" in PatentIn version 2.0 has caused the <220>-<223> section to be missing from amino acid
sequence(s) . Normally, PatentIn would automatically generate this section from the
previously coded nucleic acid sequence. Please manually copy the relevant <220>-<223> section
to the subsequent amino acid sequence. This applies primarily to the mandatory <220>-<223>
sections for Artificial or Unknown sequences.
- 8 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence:
(OLD RULES) (2) INFORMATION FOR SEQ ID NO:X:
(i) SEQUENCE CHARACTERISTICS:(Do not insert any headings under "SEQUENCE CHARACTERISTICS")
(xi) SEQUENCE DESCRIPTION:SEQ ID NO:X:
This sequence is intentionally skipped

Please also adjust the "(iii) NUMBER OF SEQUENCES:" response to include the skipped sequence(s).
- 9 Skipped Sequences Sequence(s) missing. If intentional, please use the following format for each skipped sequence.
(NEW RULES) <210> sequence id number
 <400> sequence id number
 000
- 10 Use of n's or Xaa's Use of n's and/or Xaa's have been detected in the Sequence Listing.
(NEW RULES) Use of <220> to <223> is MANDATORY if n's or Xaa's are present.
In <220> to <223> section, please explain location of n or Xaa, and which residue n or Xaa represents.
- 11 Use of <213>Organism Sequence(s) are missing this mandatory field or its response.
(NEW RULES) 6,12
- 12 Use of <220>Feature Sequence(s) are missing the <220>Feature and associated headings.
(NEW RULES) Use of <220> to <223> is MANDATORY if <213>ORGANISM is "Artificial" or "Unknown"
Please explain source of genetic material in <220> to <223> section.
(See "Federal Register," 6/01/98, Vol. 63, No. 104, pp. 29631-32) (Sec. 1.823 of new Rules)
- 13 PatentIn ver. 2.0 "bug" Please do not use "Copy to Disk" function of PatentIn version 2.0. This causes a corrupted
file, resulting in missing mandatory numeric identifiers and responses (as indicated on raw sequence listing).
Instead, please use "File Manager" or any other means to copy file to floppy disk.

OIEP

RAW SEQUENCE LISTING
 PATENT APPLICATION: US/09/721,414
 DATE: 12/07/2000
 TIME: 11:53:43

Input Set : A:\PTO.txt
 Output Set: N:\CRF3\12072000\I721414.raw

3 <110> APPLICANT: Suga, Hiroaki
 W--> 4 <120> TITLE OF INVENTION: Catalytic RNAs with Aminoacylation Activity
 W--> 5 <130> FILE REFERENCE: 11520.0222
 W--> 6 <140> CURRENT APPLICATION NUMBER: US/09/721,414
 W--> 6 <141> CURRENT FILING DATE: 2000-11-22
 W--> 6 <160> NUMBER OF SEQ ID: 22
 W--> 7 <210> SEQ ID NO: 1
 8 <211> LENGTH: 110
 9 <212> TYPE: DNA
 10 <213> ORGANISM: artificial sequence
 W--> 11 <220> FEATURE:
 12 <222> LOCATION: 21-99
 13 <223> OTHER INFORMATION: synthetic oligonucleotide containing random pool of 70
 14 nucleotides
 W--> 15 <400> SEQUENCE: 1
 17 ggatcgctcag tgcattgaga nnnnnnnnnn nnnnnnnnnn 40
 W--> 18 nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn nnnnnnnnnn 80
 W--> 19 nnnnnnnnnn ggtggtatcc ccaaggggta 110
 21 <210> SEQ ID NO: 2
 22 <211> LENGTH: 76
 23 <212> TYPE: DNA
 24 <213> ORGANISM: artificial sequence
 W--> 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: completely synthesized primer complementary to the otrNAGln
 W--> 27 <400> SEQUENCE: 2
 29 tggctgcggt acgaggattc gaacctcgga atgccggatt 40
 30 tagaaatccg gtcccttacc ccttggggat accacc 76
 33 <210> SEQ ID NO: 3
 34 <211> LENGTH: 52
 35 <212> TYPE: DNA
 36 <213> ORGANISM: artificial sequence
 W--> 37 <220> FEATURE:
 38 <223> OTHER INFORMATION: 5' primer containing T7 promoter sequence
 W--> 39 <400> SEQUENCE: 3
 41 ggtaacacgc atatgtaata cgactcacta taggatcgtc 40
 42 agtgcattga ga 52
 44 <210> SEQ ID NO: 4
 45 <211> LENGTH: 20
 46 <212> TYPE: DNA
 47 <213> ORGANISM: artificial sequence
 W--> 48 <220> FEATURE:
 49 <223> OTHER INFORMATION: 3' completely synthesized primer
 W--> 50 <400> SEQUENCE: 4
 52 tggctgcggt acgaggattc 20
 55 <210> SEQ ID NO: 5
 56 <211> LENGTH: 146
 57 <212> TYPE: RNA

Does Not Comply
 Corrected Diskette Needed

see pp 2-3, too

*FYI: per
 1.823 of
 new sequence
 Rules, use
 2217 when
 describing n or Xaa's
 in the sequence.*

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Input Set : A:\PTO.txt
Output Set: N:\CRF3\12072000\I721414.raw

OK 58 <213> ORGANISM: artificial sequence
59 <220> FEATURE:
60 <223> OTHER INFORMATION: pre-12 catalytic RNA
W--> 61 <400> SEQUENCE: 5
63 ggauugcag ugcuuugaga uuuccgcagc ccuucucacu 40
64 aacggugggu cauggguauu ggcguuaggu gcggggaugc 80
65 acgucgugug uauccccaag quuacgquac cggacauucg 120
66 aqauucgaau ccucguaccg cagcra 146
69 <210> SEQ ID NO: 6
70 <211> LENGTH: 151
71 <212> TYPE: RNA
72 <213> ORGANISM: artificial sequence
W--> 73 <220> FEATURE:
74 <222> LOCATION: 12
75 <223> OTHER INFORMATION: pre-38 catalytic RNA
W--> 76 <400> SEQUENCE: 6
78 ggauugcag ugcuuugaga uuuccgcagc ccuucucacu 40
79 aacggugggu ucauggguau uggcguuaggu ugcgggaugc 80
80 uacuacgcug gugguauccc caaggguacg ggaccggaucc 120
81 auucgagauu cgaauccucg uaccgcagcc a 151
84 <210> SEQ ID NO: 7
85 <211> LENGTH: 150
86 <212> TYPE: RNA
87 <213> ORGANISM: artificial sequence
W--> 88 <220> FEATURE:
89 <223> OTHER INFORMATION: pre-29 catalytic RNA
OK 90 <400> SEQUENCE: 7
92 ggauugcag ugcuuugaga uuuccgcagg ccuucucac 40
93 uaacggugggu ucauggguau uggcguuaggu ugcgggaugc 80
94 uacuacgcug gugguauccc caaggguacg ggaccggaca 120
95 uucgagauuc gaauccucgu accgcagcca 150
97 <210> SEQ ID NO: 8
98 <211> LENGTH: 150
99 <212> TYPE: RNA
100 <213> ORGANISM: artificial sequence
OK 101 <220> FEATURE:
102 <223> OTHER INFORMATION: pre-36 catalytic RNA
W--> 103 <400> SEQUENCE: 8
105 ggauugcag ugcuuugaga uuuccgcagc ccuucucacu 40
106 aacggugggu cauggguauu ggcguuaggu gcggggaugc 80
107 acuacgcug ugguaucucc aaggguacg gaccggauca 120
108 uucgagauuc gaauccucgu accgcagcca 150
110 <210> SEQ ID NO: 9
111 <211> LENGTH: 150
112 <212> TYPE: RNA
113 <213> ORGANISM: artificial sequence
OK 114 <220> FEATURE:
115 <223> OTHER INFORMATION: pre-24 catalytic RNA
OK 116 <400> SEQUENCE: 9

what does "n" represent,
since <223> response
describes "artificial sequence"
response in <213>?

see item 10 on
Erra summary
sheet

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Input Set : A:\PTO.txt
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117 ggaucgucag ugcuuugaga uuuccgcagc ccuucucacu 40
118 aaacgguggg ucauggguuu ugccguuagg ggcgggaugc 80
119 uacuaacgucg ququuaucac caagguuacg gaccggacau 120
120 uucgagauuc aaauccucgua ccgcagcca 150

122 <210> SEQ ID NO: 10

123 <211> LENGTH: 149

124 <212> TYPE: RNA

125 <213> ORGANISM: artificial Sequence

126 <220> FEATURE:

127 <223> OTHER INFORMATION: pre-25 catalytic RNA

128 <400> SEQUENCE: 10

130 ggaucgucag ugcuuugaga uuuccgcagc ccuucucacu 40

131 aaacgguggg ucauggguuu ugccguuagg ggcgggaugc 80

132 uacuaacgucg ququuaucac caagguuacg gaccggacau 120

133 uucgagauuc aaauccucgua ccgcagcca 149

136 <210> SEQ ID NO: 11

137 <211> LENGTH: 149

138 <212> TYPE: RNA

139 <213> ORGANISM: artificial Sequence

140 <220> FEATURE:

141 <223> OTHER INFORMATION: pre-22 catalytic RNA

142 <400> SEQUENCE: 11

144 ggaucgucag ugcuuugaga uuuccgcagc ccuucucacu 40

145 aaacgguggg ucauggguuu ugccguuagg ggcgggaugc 80

146 uacuaacgucg ququuaucac caagguuacg gaccggacau 120

147 uucgagauuc aaauccucgua ccgcagcca 149

150 <210> SEQ ID NO: 12

151 <211> LENGTH: 149

152 <212> TYPE: RNA

153 <213> ORGANISM: artificial Sequence

154 <220> FEATURE:

155 <222> LOCATION: 112

156 <223> OTHER INFORMATION: pre-5 catalytic RNA

157 <400> SEQUENCE: 12

159 ggaucgucag ugcuuugaga uuuccgcagc ccuucucacu 40

160 aaacgguggg ucauggguuu ugccguuagg ggcgggaugc 80

161 uacuaacgucg ququuaucac caagguuacg gaccggacau 120

162 uucgagauuc aaauccucgua ccgcagcca 149

165 <210> SEQ ID NO: 13

166 <211> LENGTH: 149

167 <212> TYPE: RNA

168 <213> ORGANISM: artificial Sequence

169 <220> FEATURE:

170 <223> OTHER INFORMATION: pre-19 catalytic RNA

171 <400> SEQUENCE: 13

173 ggaucgucag ugcuuugaga uuuccgcagc ccuucucacu 40

174 aaacgguggg ucauggguuu ugccguuagg ggcgggaugc 80

175 uacuaacgucg ququuaucac caagguuacg gaccggacau 120

176 uucgagauuc aaauccucgua ccgcagcca 149

what does "n" represent?

RAW SEQUENCE LISTING
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DATE: 12/07/2000
TIME: 11:53:43

Input Set : A:\PTO.txt
Output Set : N:\CRF3\12072000\I721414.raw

179 <210> SEQ ID NO: 14
180 <211> LENGTH: 150
181 <212> TYPE: RNA
182 <213> ORGANISM: artificial Sequence
OK 183 <220> FEATURE:
184 <223> OTHER INFORMATION: pre-8 catalytic RNA
OK 185 <400> SEQUENCE: 14
187 ggaucgucag ugcauugaga uuuccgcagc ccuucucacu 40
188 aacggugggg ucauggguau ugccguuagg ugcgggaugc 80
189 uacuaagcug gugguauccu caaggguagc ggaaccggaca 120
190 uucaagauuc gaauccucgu accgcagcca 150
193 <210> SEQ ID NO: 15
194 <211> LENGTH: 148
195 <212> TYPE: RNA
196 <213> ORGANISM: artificial Sequence
OK 197 <220> FEATURE:
198 <223> OTHER INFORMATION: pre-23 catalytic RNA
OK 199 <400> SEQUENCE: 15
201 ggaucgucag ugcauugaga uuuccgcagc ccuucucacu 40
202 aacggugggg cauggguauu ugccguuagg ggcgggaugc 80
203 acuaagcugg ugguaucucca aggguaagcg accggacauu 120
204 cgagaaucca auccucguac cgcagcca 148
207 <210> SEQ ID NO: 16
208 <211> LENGTH: 75
209 <212> TYPE: RNA
210 <213> ORGANISM: Escherichia coli
OK 211 <220> FEATURE:
212 <223> OTHER INFORMATION: otrna
OK 213 <400> SEQUENCE: 16
215 ggugguaucc ccaaggggua agggaccgga uucuaaaucc 40
216 ggcuaucgga gguucgaau cuguaaccgc agcca 75
218 <210> SEQ ID NO: 17
219 <211> LENGTH: 160
220 <212> TYPE: RNA
221 <213> ORGANISM: artificial sequence
OK 222 <220> FEATURE:
223 <223> OTHER INFORMATION: H2 Leu catalytic RNA
OK 224 <400> SEQUENCE: 17
226 ggaucgucag ugcauugaga ugcccaaagc ccuucucacu 40
227 uccggugggg caugcguuau ugccguuagg gaaggaaugc 80
228 aguaugcggg ugguaucucca ggguaagag accggauucu 120
229 aaauccggcau uccgagguuc gaauccucgu accgcagcca 160
231 <210> SEQ ID NO: 18
232 <211> LENGTH: 156
233 <212> TYPE: RNA
234 <213> ORGANISM: artificial sequence
OK 235 <220> FEATURE:
236 <223> OTHER INFORMATION: D1-Leu catalytic RNA
OK 237 <400> SEQUENCE: 18

RAW SEQUENCE LISTING
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Input Set : A:\PTO.txt
 Output Set: N:\CRF3\12072000\I721414.raw

239 qqaucgucaq uqcauugaga uagugucacu aggcgggggg 40
 240 ugauagcgca uuuuaggguu ugguuugggg gguaugcgu 80
 241 qaquucuuqg ququaucca agggguuagq gaucuaaau 120
 242 cgacaauccg agquucgaau ccucguaccg cagcca 156

245 <210> SEQ ID NO: 19

246 <211> LENGTH: 35

247 <212> TYPE: RNA

248 <213> ORGANISM: artificial sequence

249 <220> FEATURE:

250 <223> OTHER INFORMATION: RNA forming a minihelix

251 <400> SEQUENCE: 19

253 qquguuacga quucgaauc cucquaccgc agcca 35

255 <210> SEQ ID NO: 20

256 <211> LENGTH: 73

257 <212> TYPE: RNA

258 <213> ORGANISM: artificial sequence

259 <220> FEATURE:

260 <223> OTHER INFORMATION: V1 variant of tRNA

261 <400> SEQUENCE: 20

263 qguuguaucc ccaagggua cggaccggau ucuaaauc 40

264 gcauucgaga uucgaauc cuuaccgcag cca 73

266 <210> SEQ ID NO: 21

267 <211> LENGTH: 75

268 <212> TYPE: RNA

269 <213> ORGANISM: artificial sequence

270 <220> FEATURE:

271 <223> OTHER INFORMATION: V2 variant of tRNA

272 <400> SEQUENCE: 21

274 ggugguaucc ccaagggua cggaccggau ucuaaauc 40

275 gcauucgaga uucgaauc cuuaccgcag cca 75

278 <210> SEQ ID NO: 22

279 <211> LENGTH: 73

280 <212> TYPE: RNA

281 <213> ORGANISM: artificial sequence

282 <220> FEATURE:

283 <223> OTHER INFORMATION: V3 variant of tRNA

284 <400> SEQUENCE: 22

286 ggugguaucc ccaagggua cggaccggau ucuaaauc 10

287 gcauucgaga uucgaauc cuuaccgcag cca 73

VERIFICATION SUMMARY

DATE: 12/07/2000

PATENT APPLICATION: US/09/721,414

TIME: 11:53:44

Input Set : A:\PTO.txt

Output Set: N:\CRF3\12072000\I721414.raw

L:4 M:283 W: Missing Blank Line separator, <120> field identifier
L:5 M:283 W: Missing Blank Line separator, <130> field identifier
L:6 M:270 C: Current Application Number differs, Replaced Current Application No
L:6 M:271 C: Current Filing Date differs, Replaced Current Filing Date
L:6 M:283 W: Missing Blank Line separator, <160> field identifier
L:7 M:283 W: Missing Blank Line separator, <210> field identifier
L:11 M:283 W: Missing Blank Line separator, <220> field identifier
L:15 M:283 W: Missing Blank Line separator, <400> field identifier
L:17 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:17 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:1
L:18 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
M:340 Repeated in SeqNo=1
L:19 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:1
L:25 M:283 W: Missing Blank Line separator, <220> field identifier
L:27 M:283 W: Missing Blank Line separator, <400> field identifier
L:37 M:283 W: Missing Blank Line separator, <220> field identifier
L:39 M:283 W: Missing Blank Line separator, <400> field identifier
L:48 M:283 W: Missing Blank Line separator, <220> field identifier
L:50 M:283 W: Missing Blank Line separator, <400> field identifier
L:59 M:283 W: Missing Blank Line separator, <220> field identifier
L:61 M:283 W: Missing Blank Line separator, <400> field identifier
L:73 M:283 W: Missing Blank Line separator, <220> field identifier
L:76 M:283 W: Missing Blank Line separator, <400> field identifier
L:78 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:6
L:78 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:6
L:88 M:283 W: Missing Blank Line separator, <220> field identifier
L:90 M:283 W: Missing Blank Line separator, <400> field identifier
L:101 M:283 W: Missing Blank Line separator, <220> field identifier
L:103 M:283 W: Missing Blank Line separator, <400> field identifier
L:114 M:283 W: Missing Blank Line separator, <220> field identifier
L:116 M:283 W: Missing Blank Line separator, <400> field identifier
L:126 M:283 W: Missing Blank Line separator, <220> field identifier
L:128 M:283 W: Missing Blank Line separator, <400> field identifier
L:140 M:283 W: Missing Blank Line separator, <220> field identifier
L:142 M:283 W: Missing Blank Line separator, <400> field identifier
L:154 M:283 W: Missing Blank Line separator, <220> field identifier
L:157 M:283 W: Missing Blank Line separator, <400> field identifier
L:161 M:258 W: Mandatory Feature missing, <221> not found for SEQ ID#:12
L:161 M:340 W: (46) "n" or "Xaa" used: Feature required, for SEQ ID#:12
L:169 M:283 W: Missing Blank Line separator, <220> field identifier
L:171 M:283 W: Missing Blank Line separator, <400> field identifier
L:183 M:283 W: Missing Blank Line separator, <220> field identifier
L:185 M:283 W: Missing Blank Line separator, <400> field identifier
L:197 M:283 W: Missing Blank Line separator, <220> field identifier
L:199 M:283 W: Missing Blank Line separator, <400> field identifier
L:211 M:283 W: Missing Blank Line separator, <220> field identifier
L:213 M:283 W: Missing Blank Line separator, <400> field identifier
L:222 M:283 W: Missing Blank Line separator, <220> field identifier

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Input Set : A:\PTO.txt
Output Set: N:\CRF3\12072000\I721414.raw

L:224 M:283 W: Missing Blank Line separator, <400> field identifier
L:225 M:283 W: Missing Blank Line separator, <220> field identifier
L:231 M:283 W: Missing Blank Line separator, <400> field identifier
L:249 M:283 W: Missing Blank Line separator, <220> field identifier
L:251 M:283 W: Missing Blank Line separator, <400> field identifier
L:259 M:283 W: Missing Blank Line separator, <220> field identifier
L:261 M:283 W: Missing Blank Line separator, <400> field identifier
L:270 M:283 W: Missing Blank Line separator, <220> field identifier
L:272 M:283 W: Missing Blank Line separator, <400> field identifier
L:282 M:283 W: Missing Blank Line separator, <220> field identifier
L:284 M:283 W: Missing Blank Line separator, <400> field identifier



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Legal Date: 08-05-2001

No.	Doccode	Number of pages
1	CRFL	7

Total number of pages: 7

Remarks:

Order of re-scan issued on